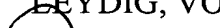


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[illegible]

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Application of:

YUN KEUNG STANLEY TANG

Application No. Unassigned Art Unit: Unassigned

Filed: November 19, 2001 Examiner: Unassigned

For: BATTERY OPERATED  
LIGHTING DEVICE

**AMENDMENTS TO SPECIFICATION, CLAIMS, AND  
ABSTRACT MADE VIA PRELIMINARY AMENDMENT**

*Amendments to the paragraph beginning at page 1, line 8:*

~~Electrical~~ An electrical appliance that operates on a rechargeable battery pack requires the use of a battery pack of a specified design and a specified operating voltage. Examples of such ~~electrical-appliance~~ appliance appliances are power hand tools, such as drills, and lighting devices, such as torch lights. For promotion, electric hand drills are sometimes sold with a torch light as a gift, in which case the torch light is designed to operate on the same battery pack as the drill.

*Amendments to the paragraph beginning at page 1, line 18:*

In the same series or design, electric hand drills are available in different driving powers, which ~~determines~~ determine the operating voltage of the battery pack needed. It is therefore necessary to produce torch lights of different operating voltages to go with electric hand drills of the same operating voltage. This complicates the ~~manufactory~~ manufacturing, inventory control ~~as well as~~, and packaging of such products.

*Amendments to the existing claims:*

1. (Amended) A battery-operated lighting device for use with any one of a plurality of rechargeable battery packs, each battery pack having a pair of terminals and producing a different operating voltage, said battery-operated lighting device comprising:

a casing having first and second casing parts,

a lighting unit including a light bulb ~~provided~~ located at the first casing part, said light bulb having an optimum operating voltage,

a battery chamber ~~formed~~ located at the second casing part for receiving at least part of and locating ~~said any one of the battery-pack packs,~~

a pair of electrical contacts located in ~~the~~ said battery chamber for making electrical connection with respective terminals of ~~said any of the battery-pack packs~~ located by the in said battery chamber, and

an electronic voltage regulating circuit ~~provided~~ within ~~the~~ said casing and having an input and an output ~~in electrical connection with the~~ electrically connected to said electrical contacts and ~~the~~ said light bulb, respectively, said circuit ~~being arranged to regulate~~ regulating the operating voltage of ~~said the~~ battery pack ~~down in~~ in said battery chamber to substantially the optimum operating voltage of ~~the~~ said light bulb, for operating ~~the~~ said light bulb.

2. (Amended) The battery-operated lighting device as claimed in claim 1, wherein the chamber has an opening through which ~~said a part of any of the battery-pack packs~~ is insertable into ~~the~~ said battery chamber, said opening having a periphery ~~of with~~ a shape and size substantially the same as ~~that of an adjacent periphery of said the part of any of the battery-pack packs~~ for ~~matching therewith when said locating any of the battery-pack is~~ located by the packs in said battery chamber.

3. (Amended) The battery-operated lighting device as claimed in claim 2, wherein ~~the~~ said casing has an outer surface ~~of the casing forming the~~ said battery chamber ~~is arranged to lie and lying~~ substantially flush with ~~that of said any of the battery-pack packs~~ when ~~said battery pack is~~ located by the said battery chamber.

4. (Amended) The battery-operated lighting device as claimed in claim 1, wherein ~~the said~~ casing has a lower end ~~that forms the forming part of said battery chamber~~, said battery chamber having a bottom opening through which ~~said a part of any of the battery pack packs~~ is insertable into ~~the said battery chamber, with the rest of said a battery pack in~~ and protruding from said battery chamber acting as a weighted base for ~~the overall torch light~~ said battery-operated lighting device.

5. (Amended) The battery-operated lighting device as claimed in claim 4, wherein ~~the said~~ casing has an upper end that supports ~~the said~~ lighting unit and ~~includes a middle section between the upper and lower ends that is shaped to form an upright~~ including a handgrip.

6. (Amended) The battery-operated lighting device as claimed in claim 1, wherein ~~the said~~ voltage regulating circuit ~~is implemented based on~~ includes an integrated circuit chip ~~to provide~~ producing a substantially constant output voltage that is the optimum operating voltage of ~~the said~~ light bulb, irrespective of an input voltage falling within a ~~predetermined~~ range.

7. (Amended) The battery-operated lighting device as claimed in claim 6, wherein ~~the said~~ voltage regulating circuit includes a feedback loop connected from ~~the said~~ output back to ~~the said~~ integrated circuit chip, ~~which loop is arranged to provide a signal indicative of the level of~~ for indicating the output voltage ~~to enable the chip to maintain the output voltage at a substantially constant level.~~

8. (Amended) The battery-operated lighting device as claimed in claim 6, wherein ~~the predetermined range of~~ input voltage is within a range substantially from 9.6V to 18.0V DC.

9. (Amended) The battery-operated lighting device as claimed in claim 8, wherein the operating voltages of ~~said the~~ battery packs are substantially 9.6V, 12.0V, 13.2V, 14.4V, 15.6V, 16.8V, and 18.0V.

10. (Amended) The battery-operated lighting device as claimed in claim 1, wherein the optimum operating voltage of ~~the~~ said light bulb is substantially 9.3V DC.

*Amendments to the abstract:*

#### ABSTRACT OF DISCLOSURE

A battery-operated lighting device for use with any one of ~~a plurality of several~~ rechargeable battery packs, each battery pack having a pair of terminals and a different operating voltage. The lighting device ~~comprises~~ includes a casing having first and second parts, a lighting unit including a light bulb ~~provided~~ located at the first casing part, and a battery chamber ~~formed~~ at the second casing part for receiving at least part of and locating ~~said any one the battery pack~~ said the battery pack. The light bulb has an optimum operating voltage. A pair of electrical contacts is located in the chamber for making electrical connection with respective terminals of ~~said a~~ battery pack located by the chamber. The casing houses an electronic voltage regulating circuit that has an input and an output in electrical connection with the contacts and the light bulb, respectively. The circuit ~~is arranged to regulate~~ regulates the voltage of ~~said the battery pack down~~ to substantially the optimum operating voltage of the light bulb for operating the light bulb.